ESTABILIDAD

DE LAS

CONSTRUCCIONES

DE

MAMPOSTERÍA

POR

E. BOIX

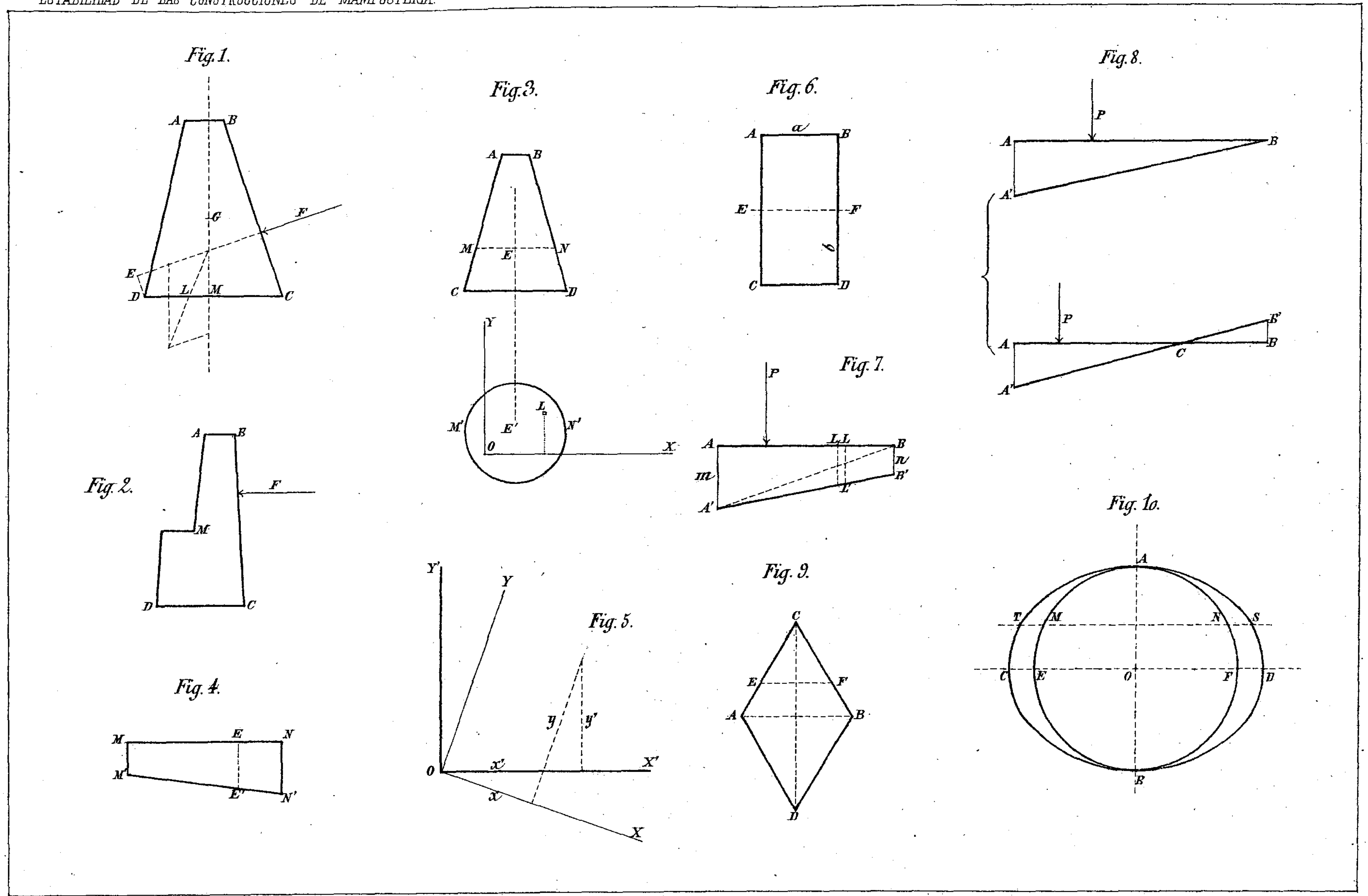
INGENIERO JEFE DE CAMINOS, CANALES Y PUERTOS

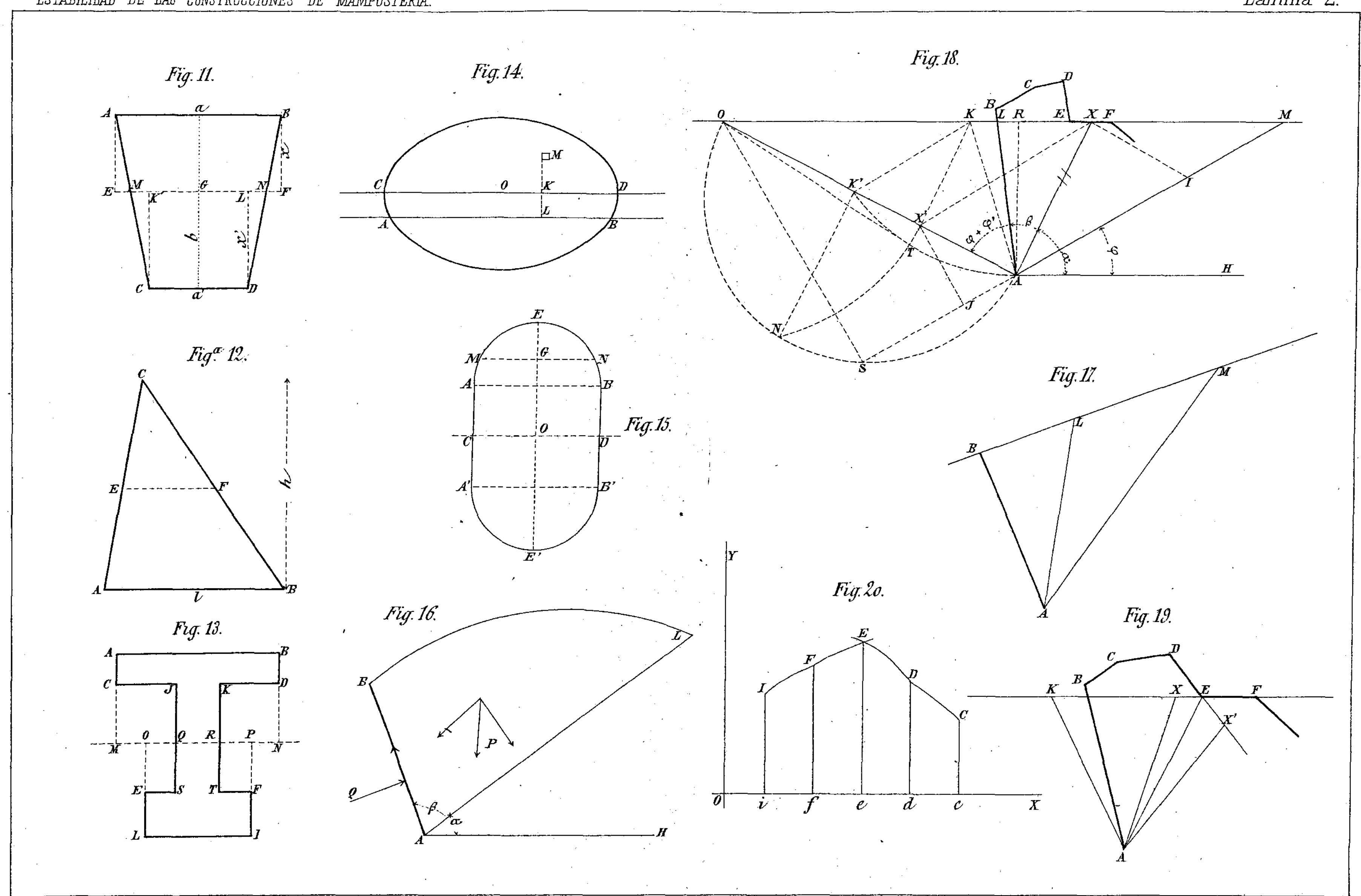
MADRID

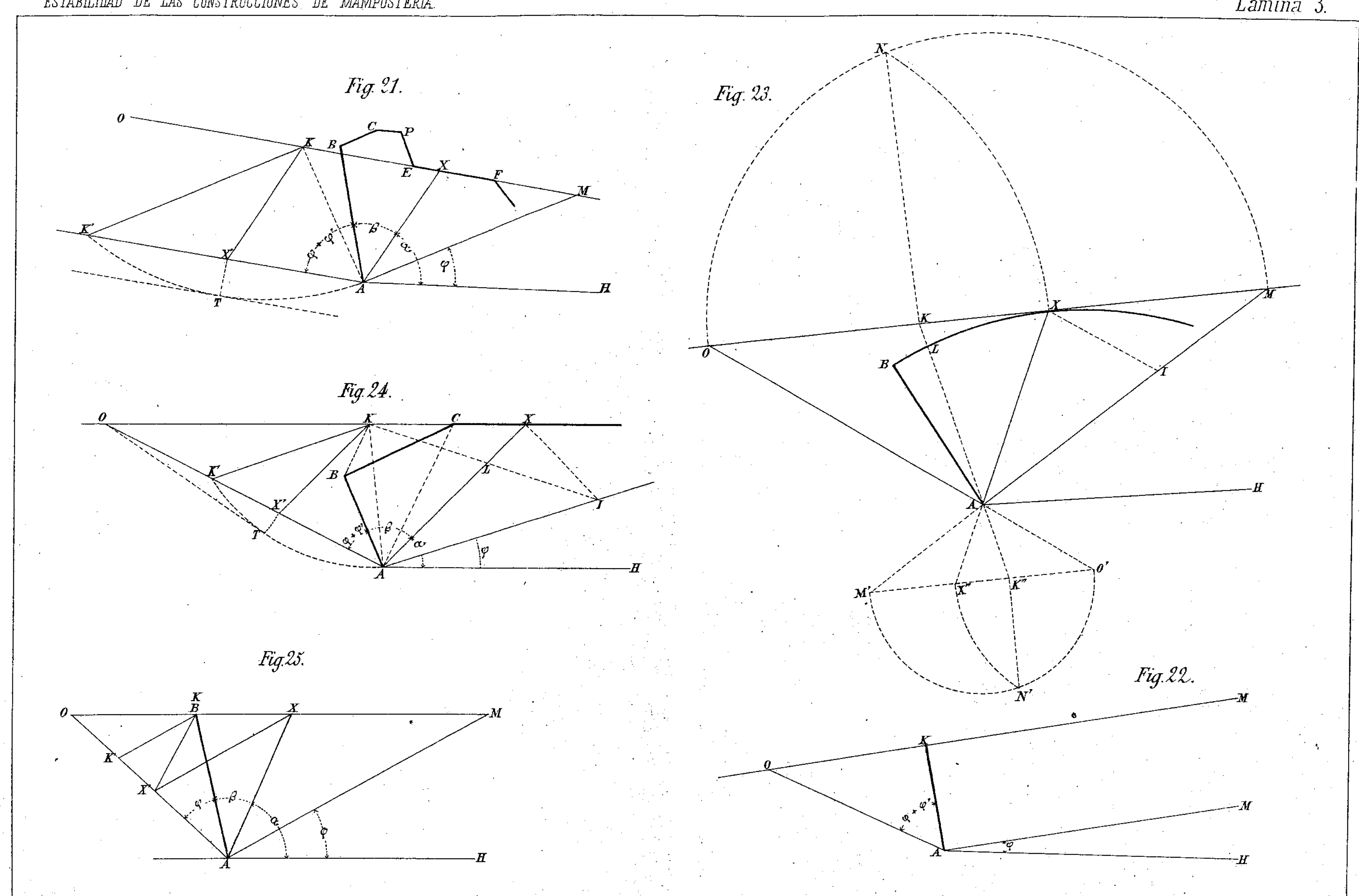
ESTABLECIMIENTO TIPOGRÁFICO DE G. JUSTE

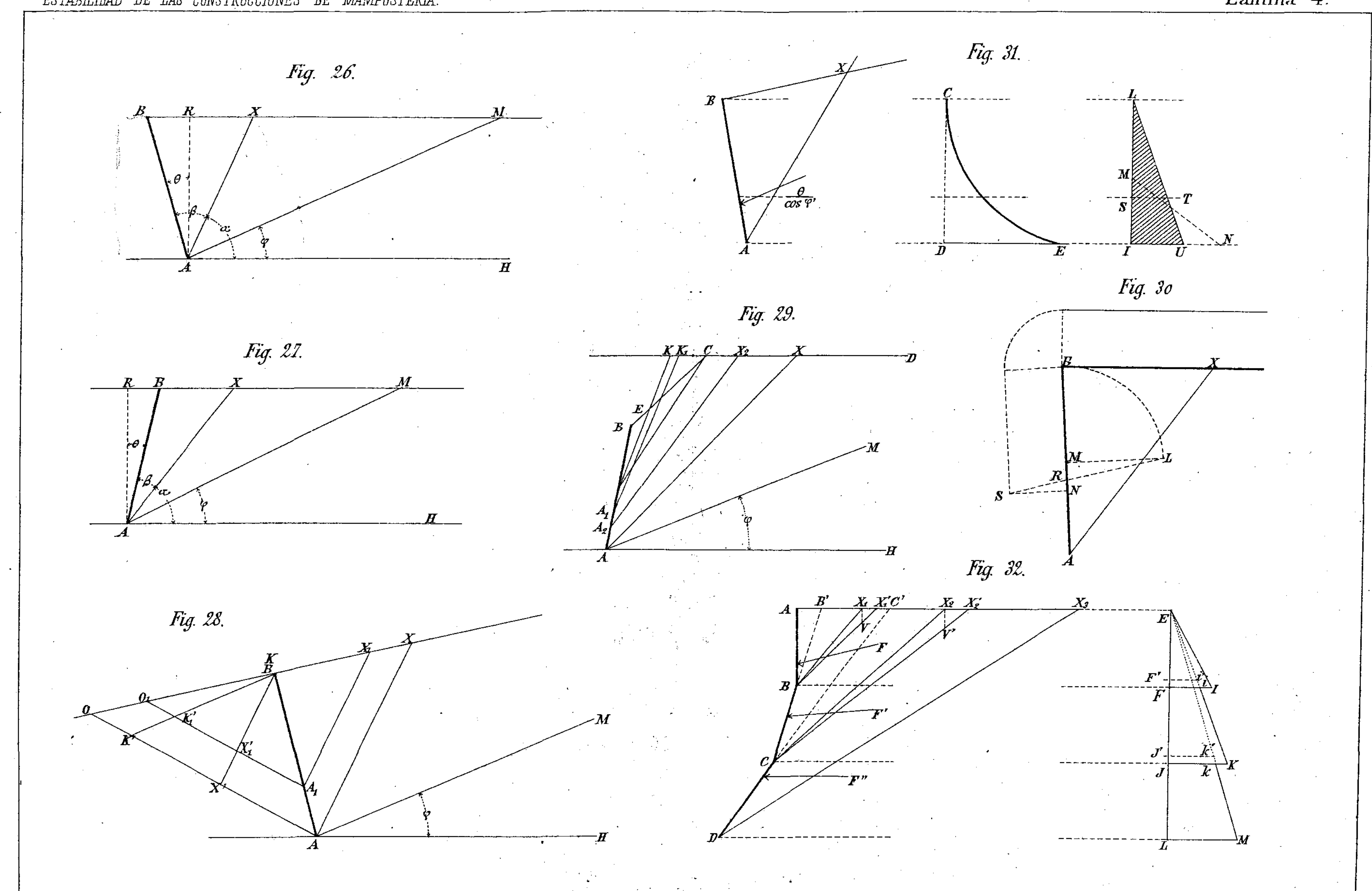
Calle de Pizarro, núm. 15, bajo

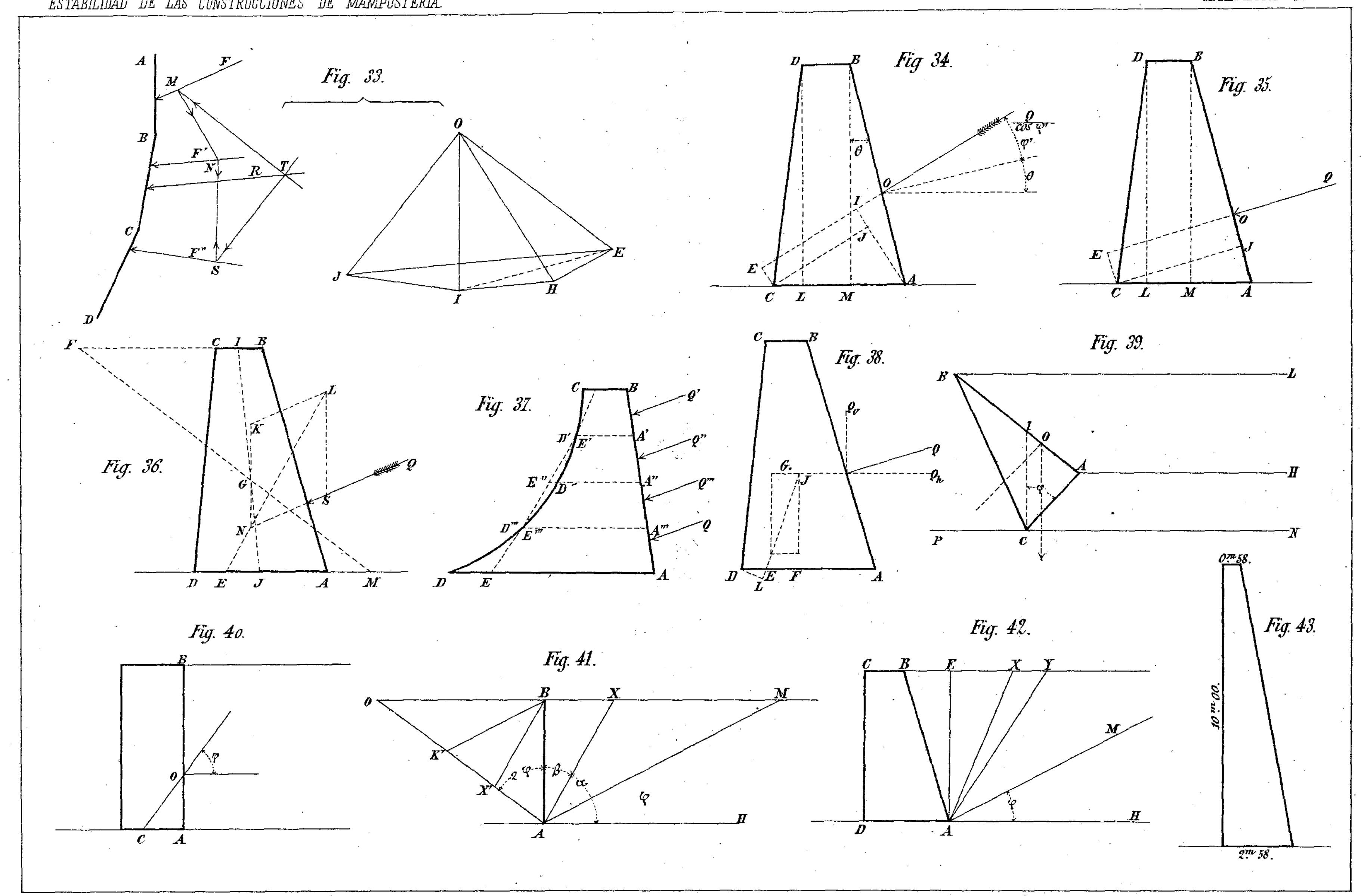
1889


Fig. 1.
A B G F E D L M C
Fig. 2.
A B F M D C
Fig. 3.
A B M E N C D
Y M' E' L N' O X
Fig. 4.
M E N M' E' N'
Fig. 5.
Y' Y y y' O x' X' x X
Fig. 6.
A a B E F b C D
Fig. 7.
P A L L B n m B' L' A'
Fig. 8.
P A B A'
P A C B' B A'
Fig. 9.
C E F A B D
Fig. 10.
A T M N S C E O F D B


Fig. 11.
Fig.ª 12.
Fig. 13.
Fig. 14.
Fig. 15.
Fig. 16.
Fig. 17.
Fig. 18.
Fig. 19.
Fig. 2o.


Fig. 21.
Fig. 23.
Fig. 24.
Fig. 25.
Fig. 22.


Fig. 26.
Fig. 27.
Fig. 28.
Fig. 29.
Fig. 30
Fig. 31.
Fig. 32.


Fig. 33.
Fig. 34.
Fig. 35.
Fig. 36.
Fig. 37.
Fig. 38.
Fig. 39.
Fig. 40.
Fig. 41.
Fig. 42.
Fig. 43.
0m 58.
10m 00.
2m 58.

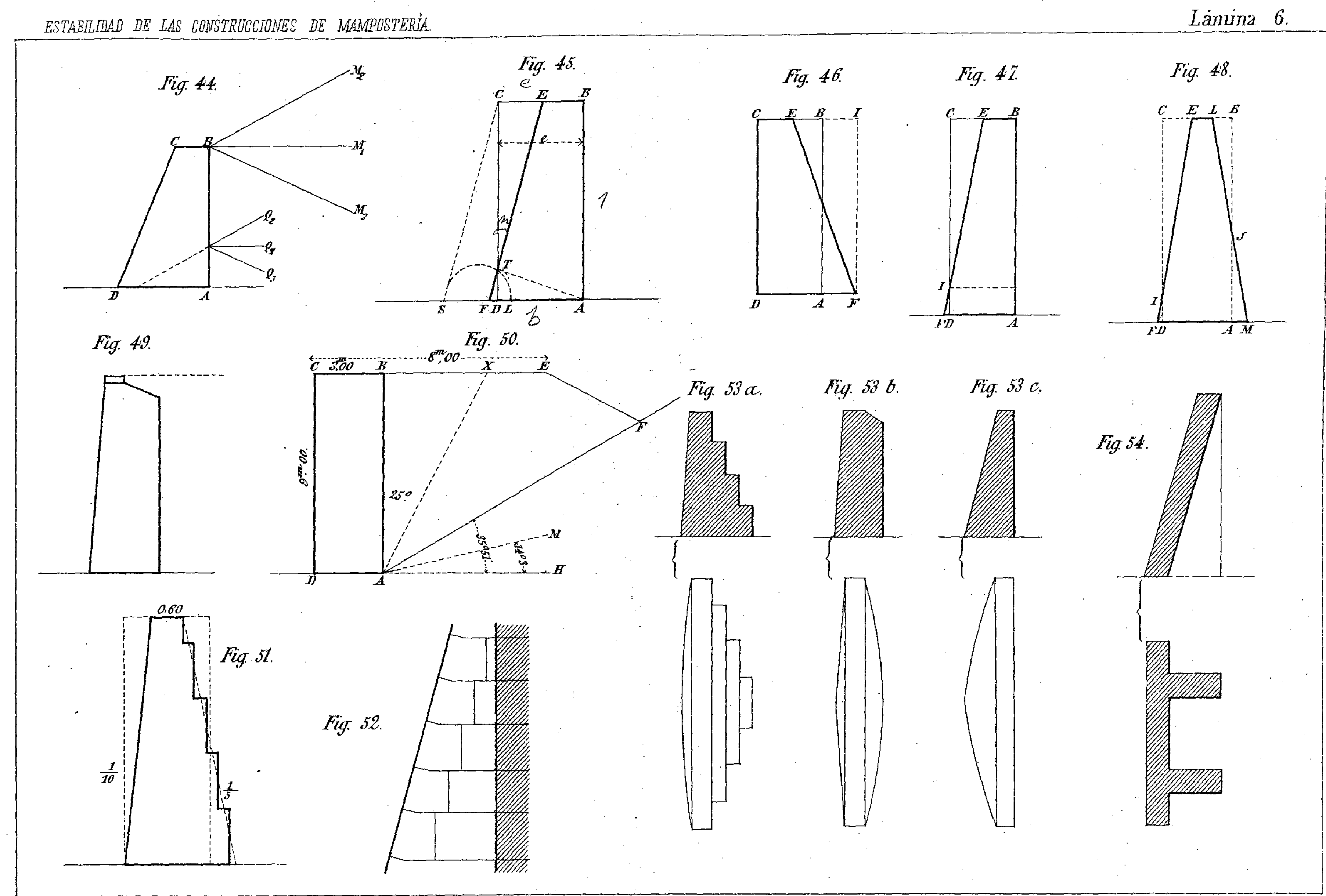


Fig. 44.
Fig. 45.
Fig. 46.
Fig. 47.
Fig. 48.
Fig. 49.
Fig. 50.
8m,00
3m,00
9m,00
25°
Fig. 53 a.
Fig. 53 b.
Fig. 53 c.
Fig. 54.
Fig. 51.
0,60
1/10
1/5
Fig. 52.

Fig. 55.

Fig. 56.

Fig. 57.

Fig. 58.

Fig. 59.

Fig. 60

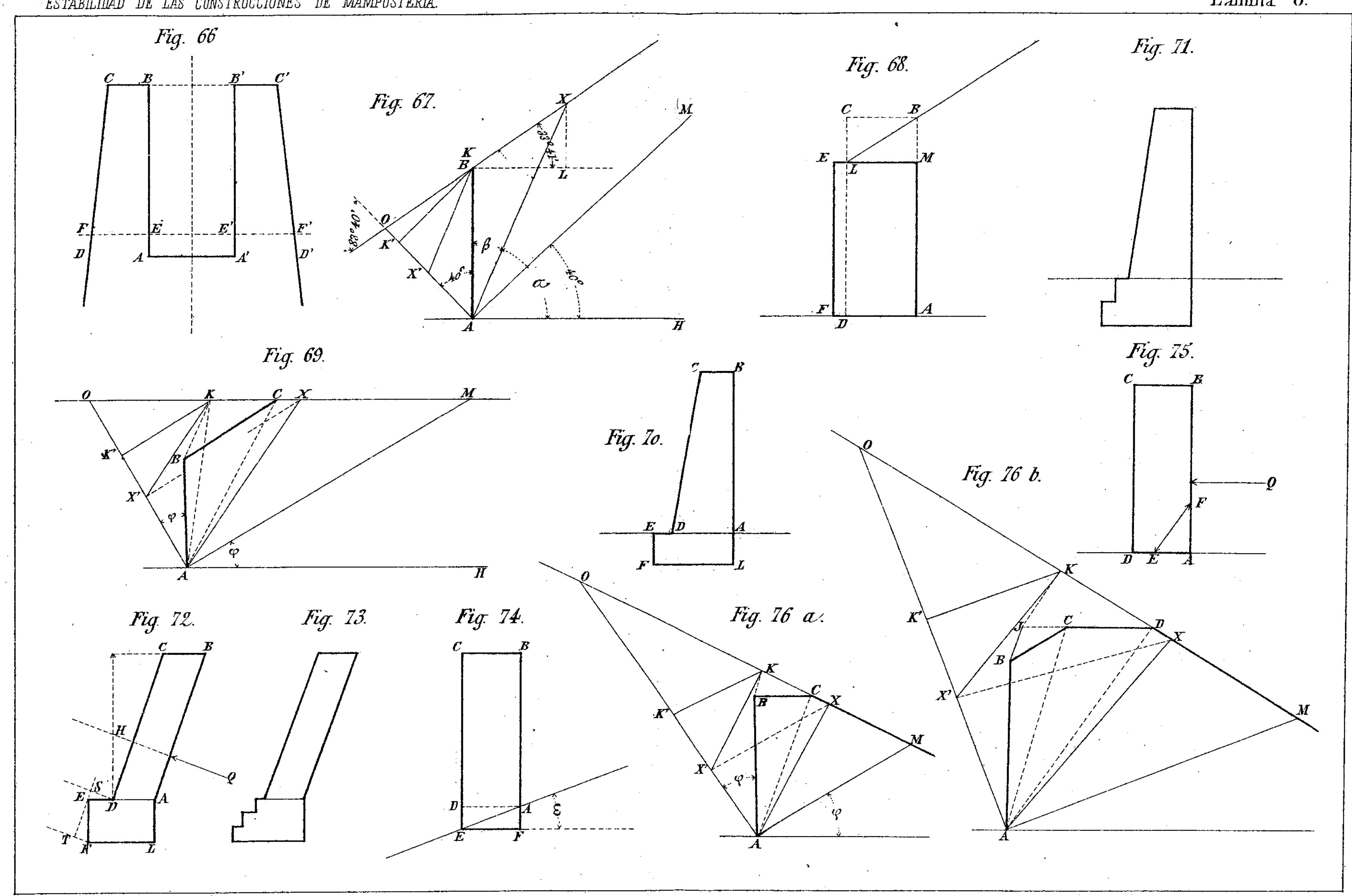
Fig. 61.

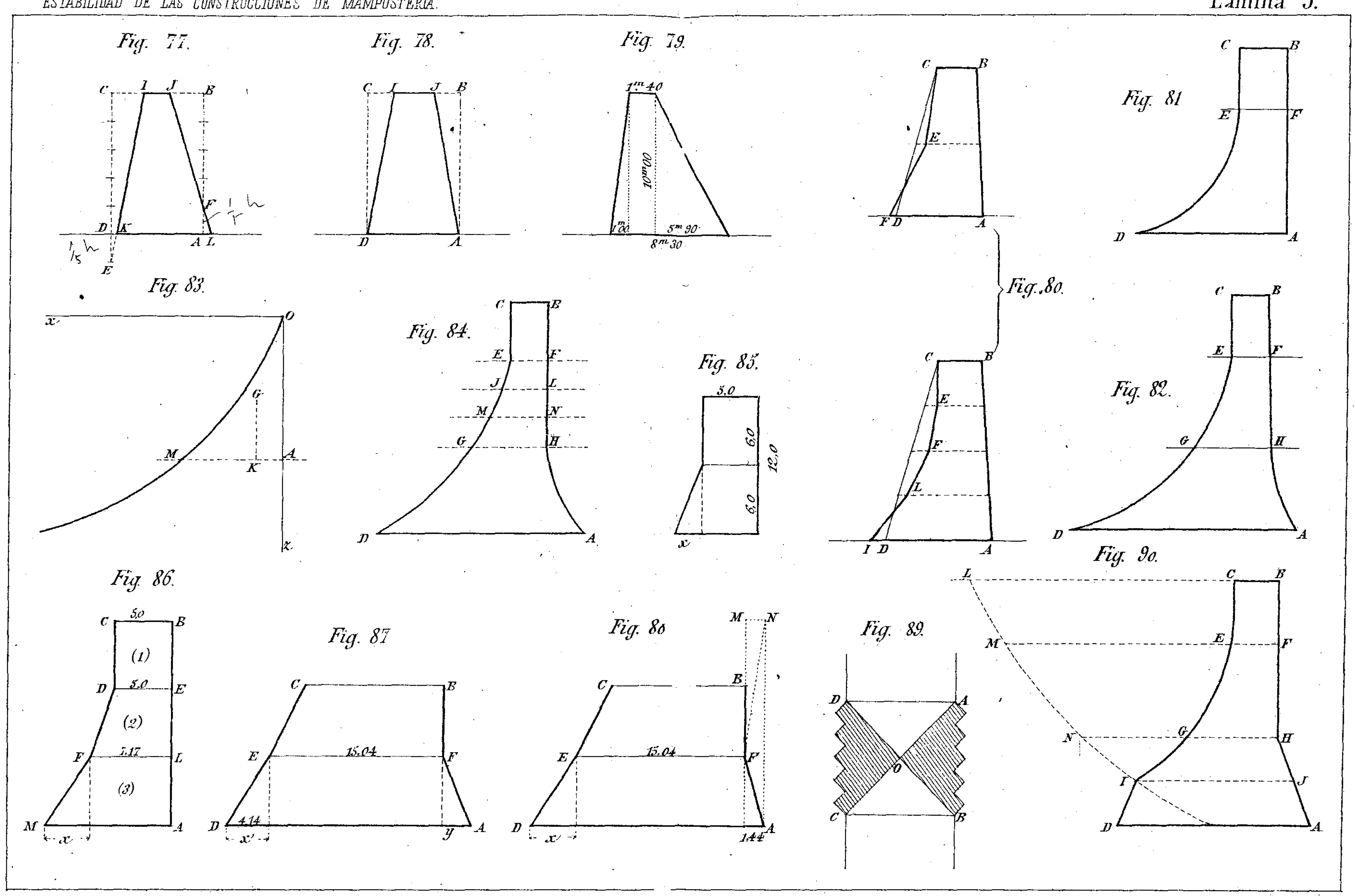
Fig. 62.

Fig. 63.

Fig. 64.

Fig. 65.


Fig. 66
C B B' C'
F E E' F'
D A A' D'
Fig. 67.
X
M
K
B
L
O
K'
X'
β
α
40°
A
H
Fig. 68.
C B
E L M
F D A
Fig. 71.
Fig. 69.
O K C X M
K'
B
X'
φ
φ
A
H
Fig. 7o.
C B
E D A
F L
Fig. 75.
C B
Q
F
D E A
Fig. 76 b.
O
K
K'
C D X
B
X'
M
A
Fig. 72.
C B
H
Q
E S D A
T F L
Fig. 73.
Fig. 74.
C B
D A
E F
ω
Fig. 76 a.
O
K
K'
B C X
M
X'
φ
φ
A


Fig. 77.
Fig. 78.
Fig. 79.
Fig. 80.
Fig. 81
Fig. 82.
Fig. 83.
Fig. 84.
Fig. 85.
Fig. 86.
Fig. 87
Fig. 88
Fig. 89.
Fig. 90.
1m 40
10m 00
8m 30
5m 90
5.0
6.0
12.0
(1)
(2)
(3)
15.04
4.14
1.44

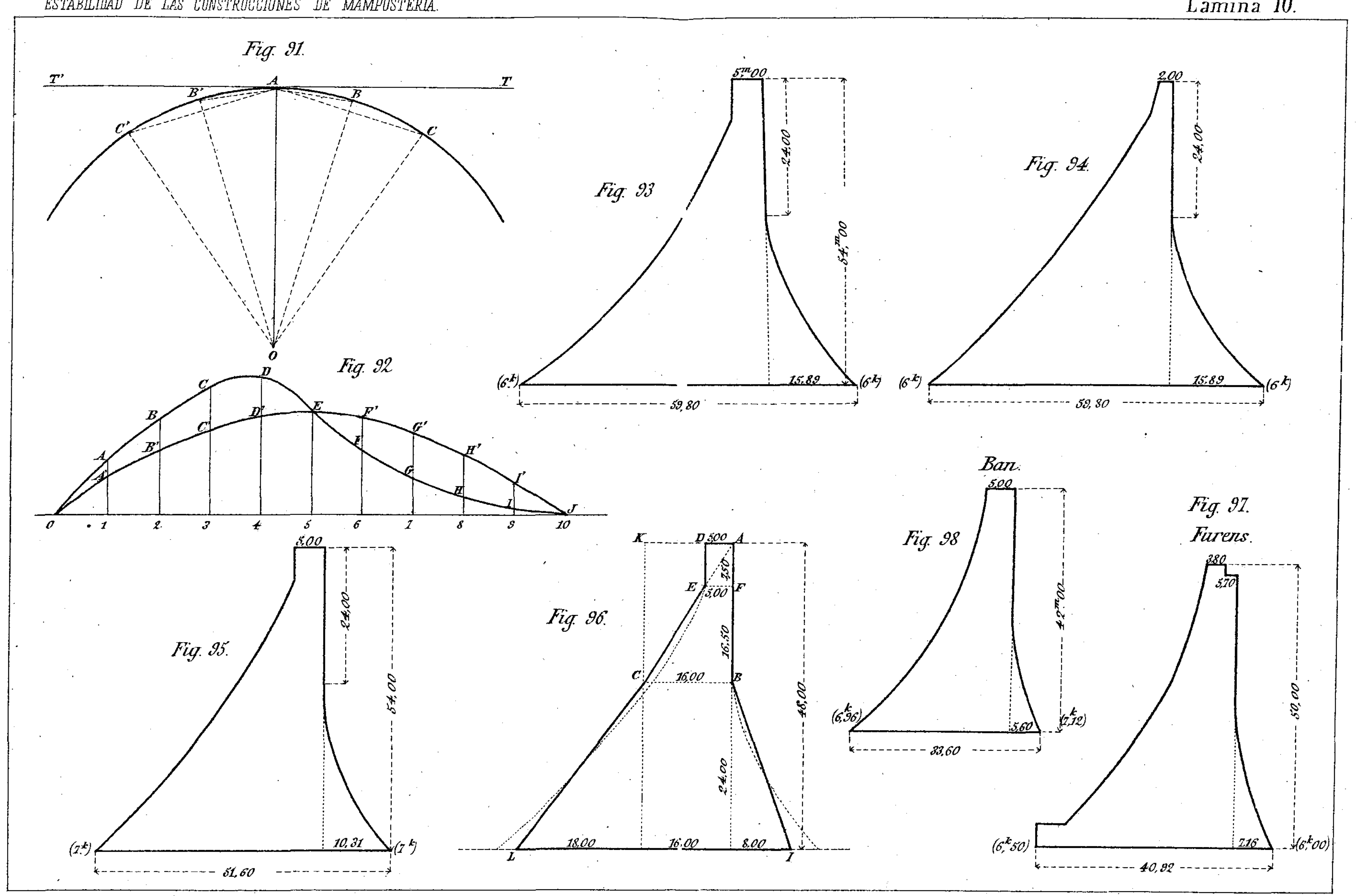
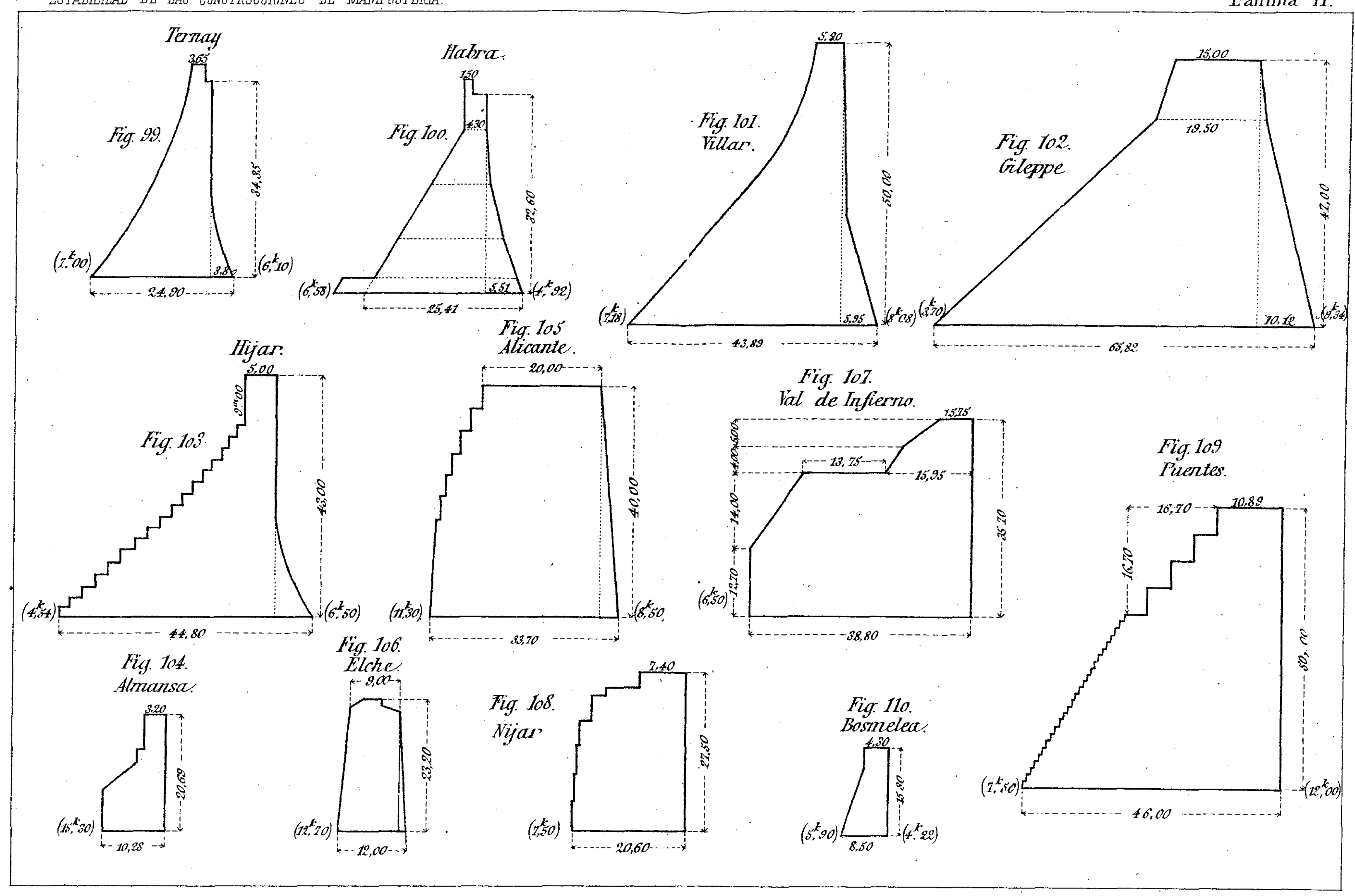
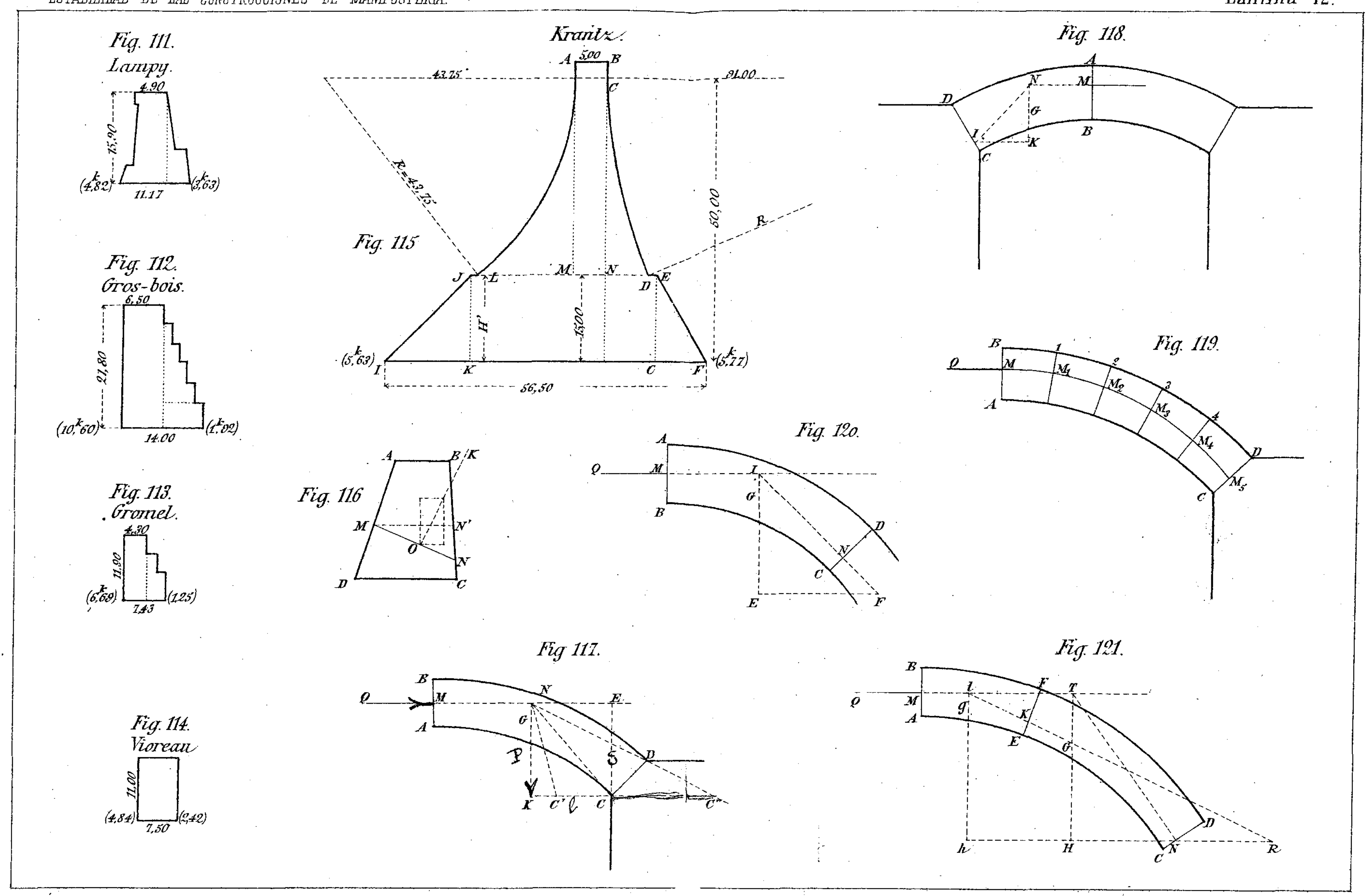
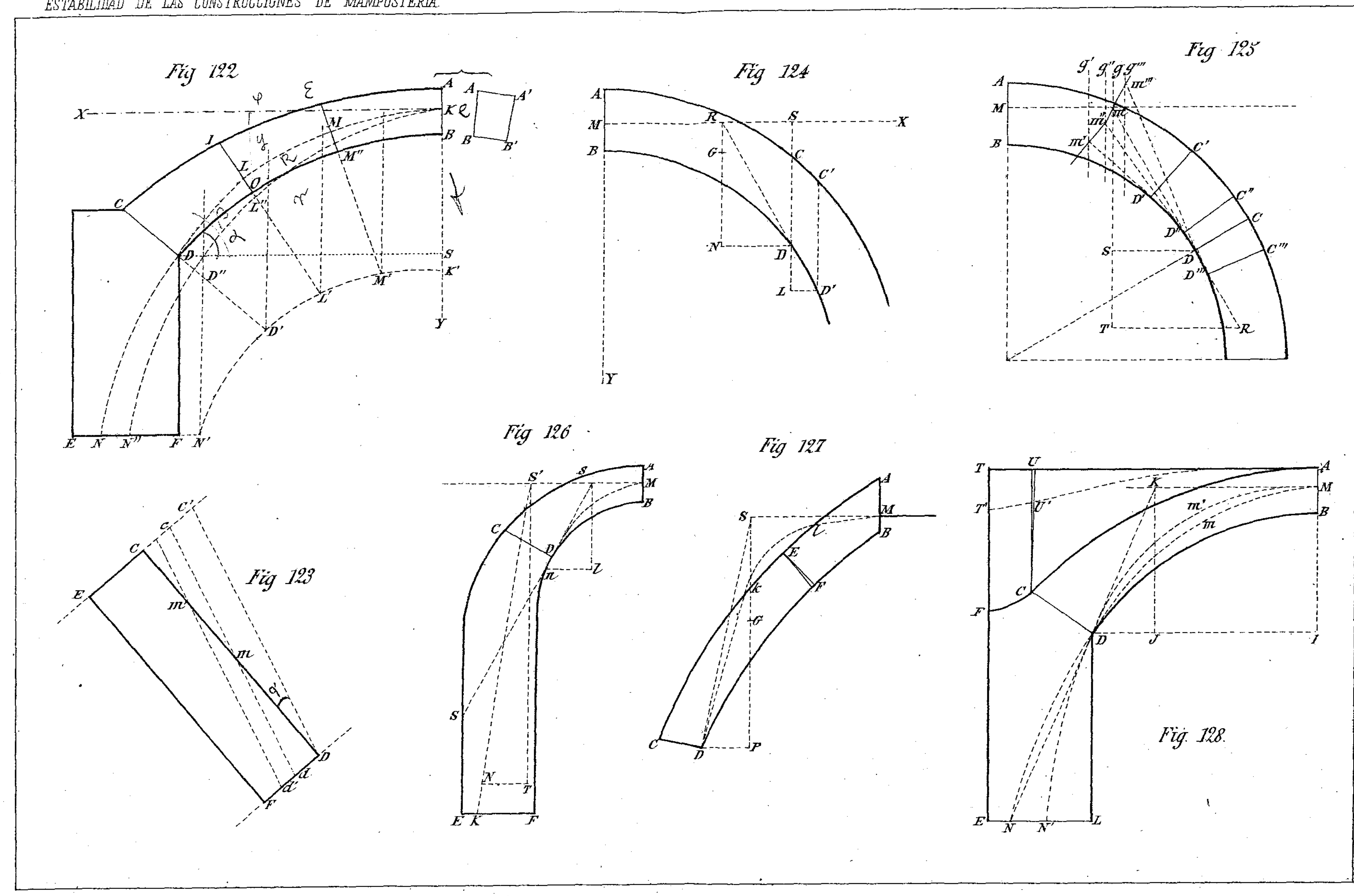
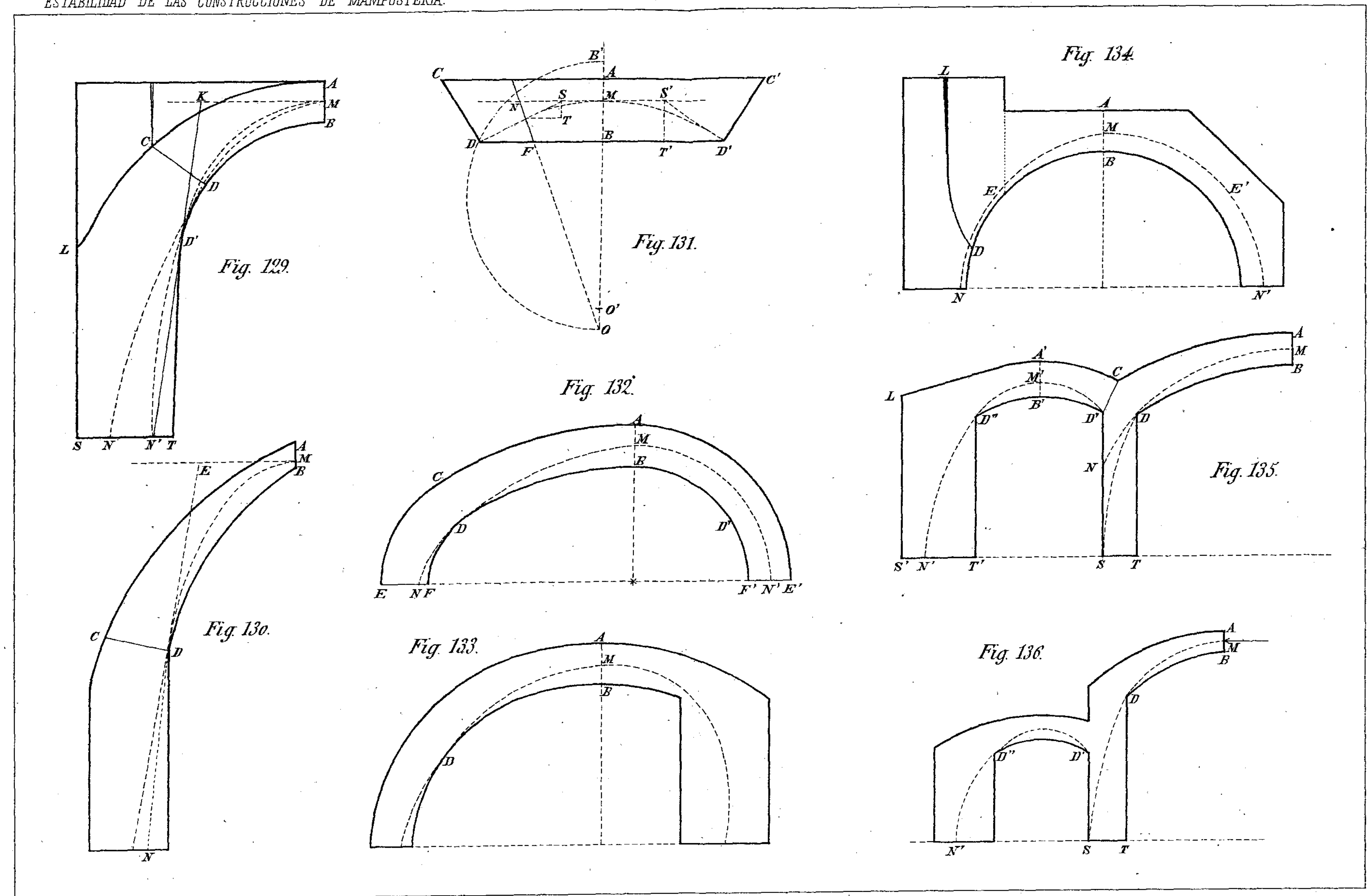


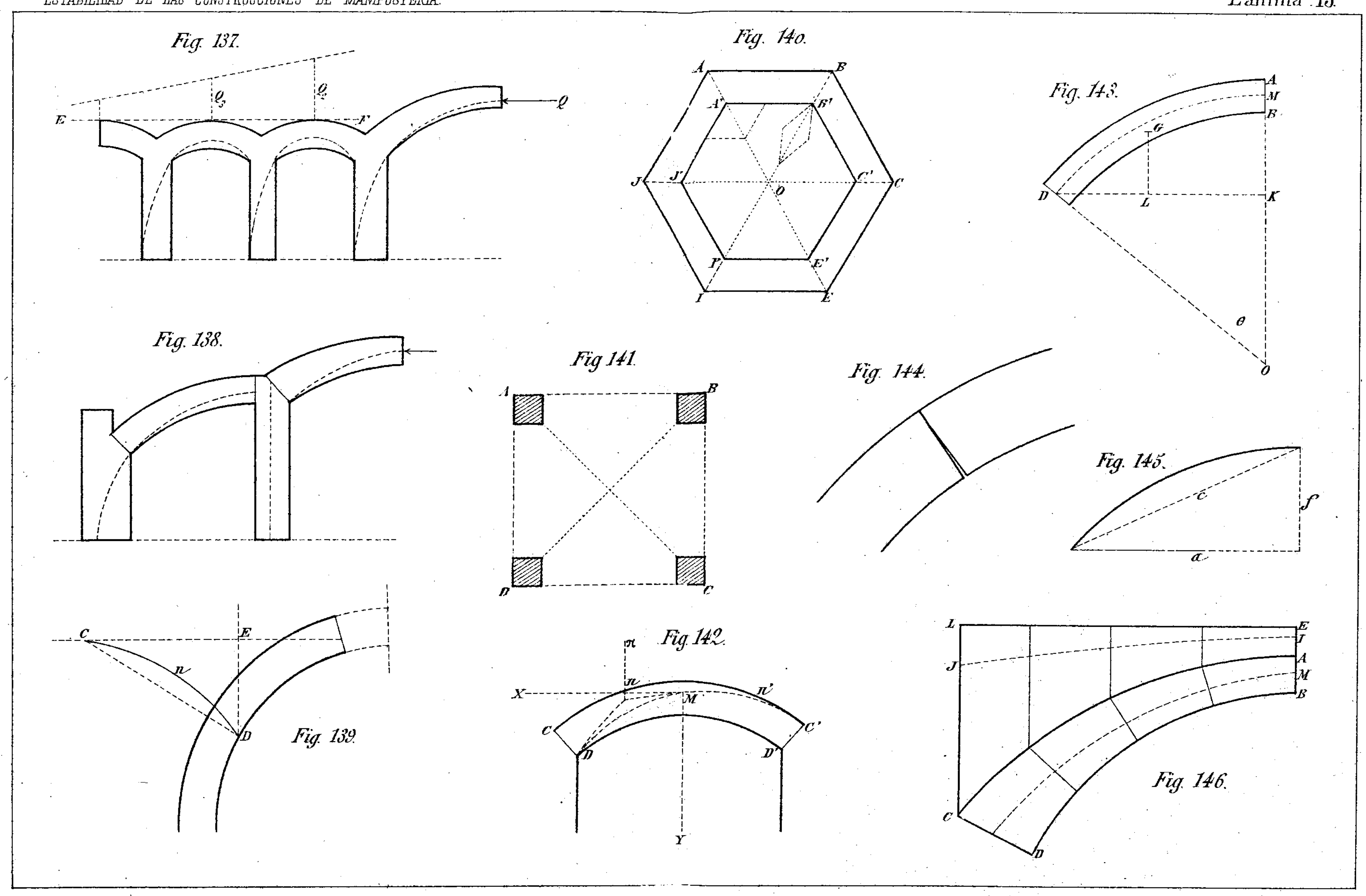
Fig. 91.
T'
A
T
B'
B
C'
C
O
Fig. 92.
D
C
E
F'
B
C'
D'
G'
A
B'
F
H'
A'
G
I'
H
I
J
0
1
2
3
4
5
6
7
8
9
10
Fig. 93.
5m00
24,00
54m,00
(6k)
15,89
(6k)
59,80
Fig. 94.
2,00
24,00
(6k)
15,89
(6k)
59,80
Fig. 95.
5,00
24,00
54,00
(7k)
10,31
(7k)
51,60
Fig. 96.
K
D 5,00 A
4,50
E
5,00
F
16,50
C
16,00
B
48,00
24,00
L
18,00
16,00
8,00
I
Ban.
5,00
Fig. 98.
47m00
(6,96k)
5,60
(7,12k)
33,60
Fig. 97.
Furens.
3,80
5,70
50,00
(6,50k)
7,16
(6,00k)
40,92

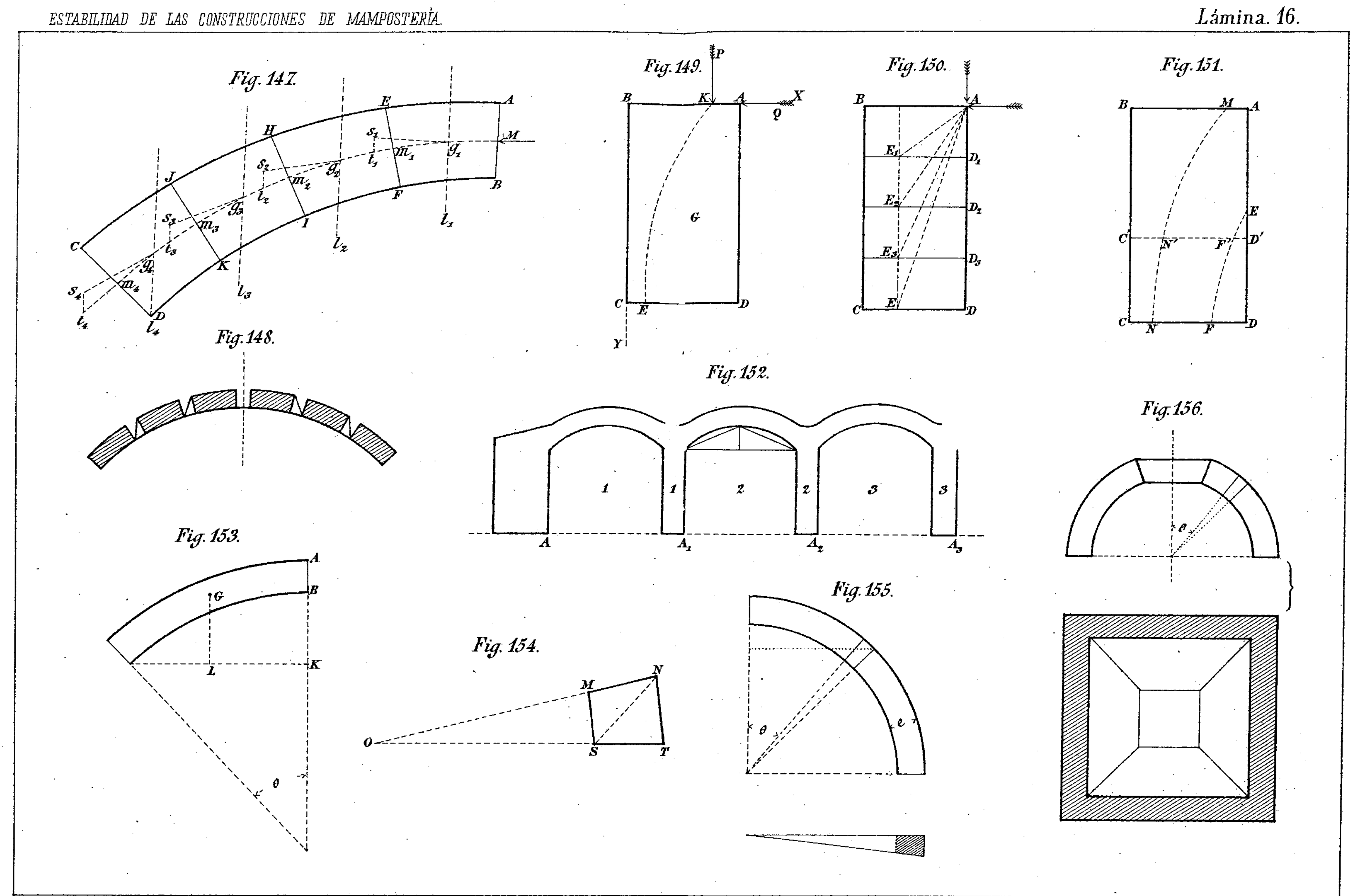

Ternay
Fig. 99.
Habra.
Fig. 100.
Fig. 101.
Villar.
Fig. 102.
Gileppe
Hijar.
Fig. 103.
Fig. 105
Alicante.
Fig. 107.
Val de Infierno.
Fig. 109
Puentes.
Fig. 104.
Almansa.
Fig. 106.
Elche.
Fig. 108.
Nijar
Fig. 110.
Bosmelea.
24,90
25,41
43,89
65,82
44,80
33,70
38,80
46,00
10,28
12,00
20,60
8,50

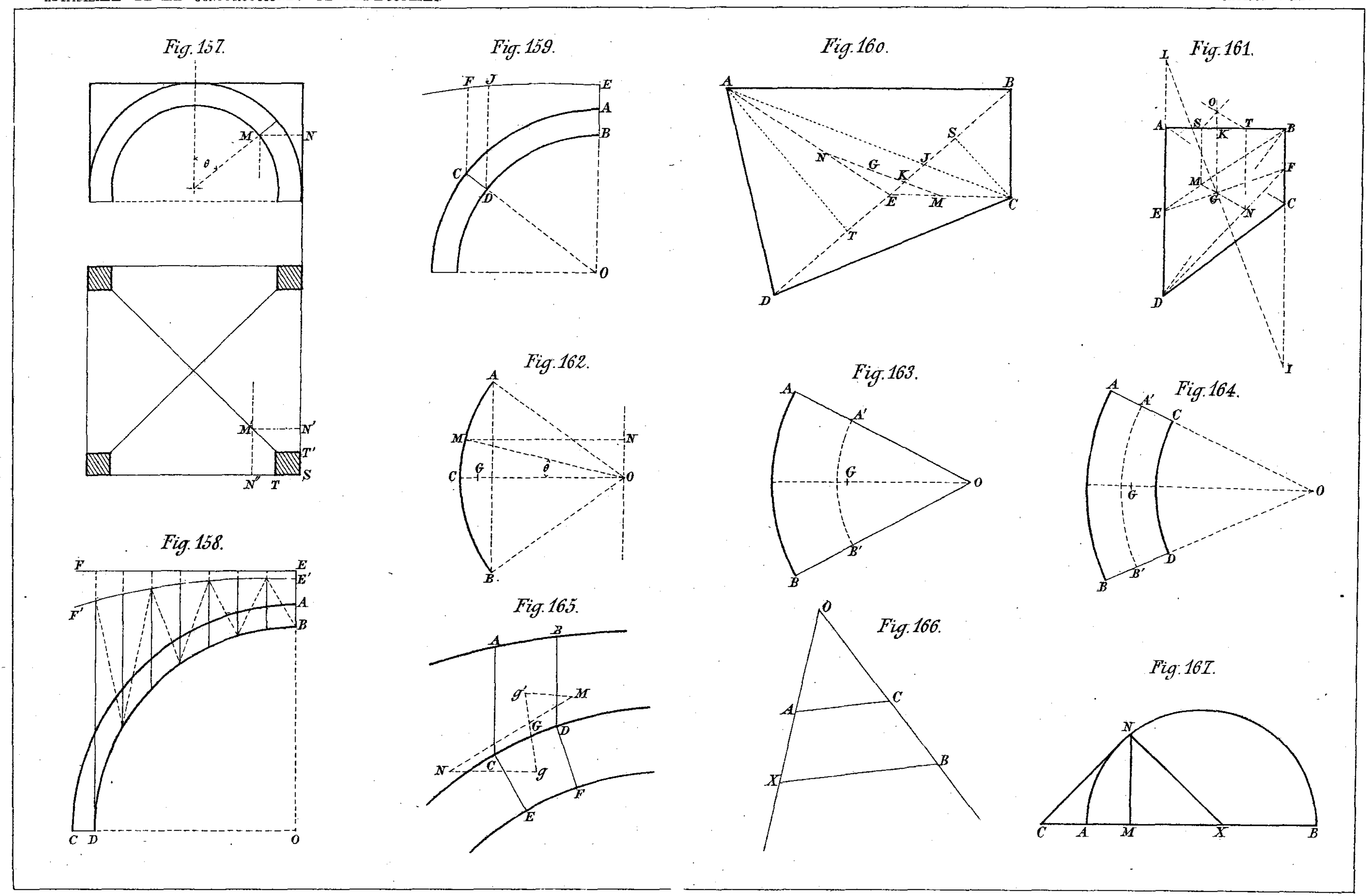

Fig. 111.
Lampy.
4.90
15.90
(4,82)
11.17
(3,63)
Fig. 112.
Gros-bois.
6.50
21,80
(10,60)
14.00
(1,02)
Fig. 113.
Gromel.
4,30
11,90
(6,69)
7,43
(1,25)
Fig. 114.
Vioreau
11,00
(4,84)
7,50
(2,42)
Krantz.
5,00
43,75
91,00
R=43,75
Fig. 115
50,00
15,00
H'
(5,63)
(5,77)
56,50
Fig. 116
Fig. 117.
Fig. 118.
Fig. 119.
Fig. 120.
Fig. 121.

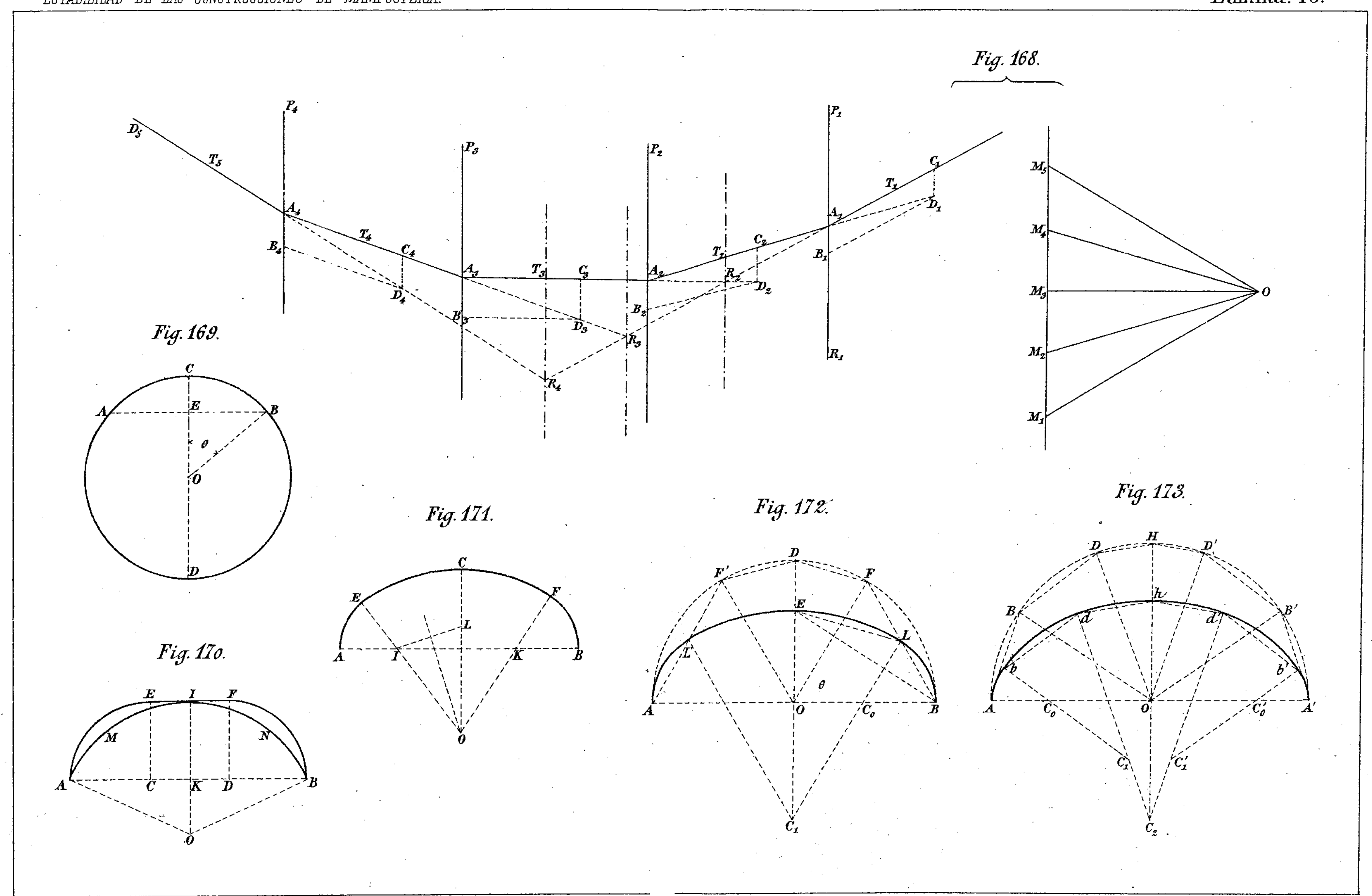

Fig 122
Fig 124
Fig 125
Fig 123
Fig 126
Fig 127
Fig 128

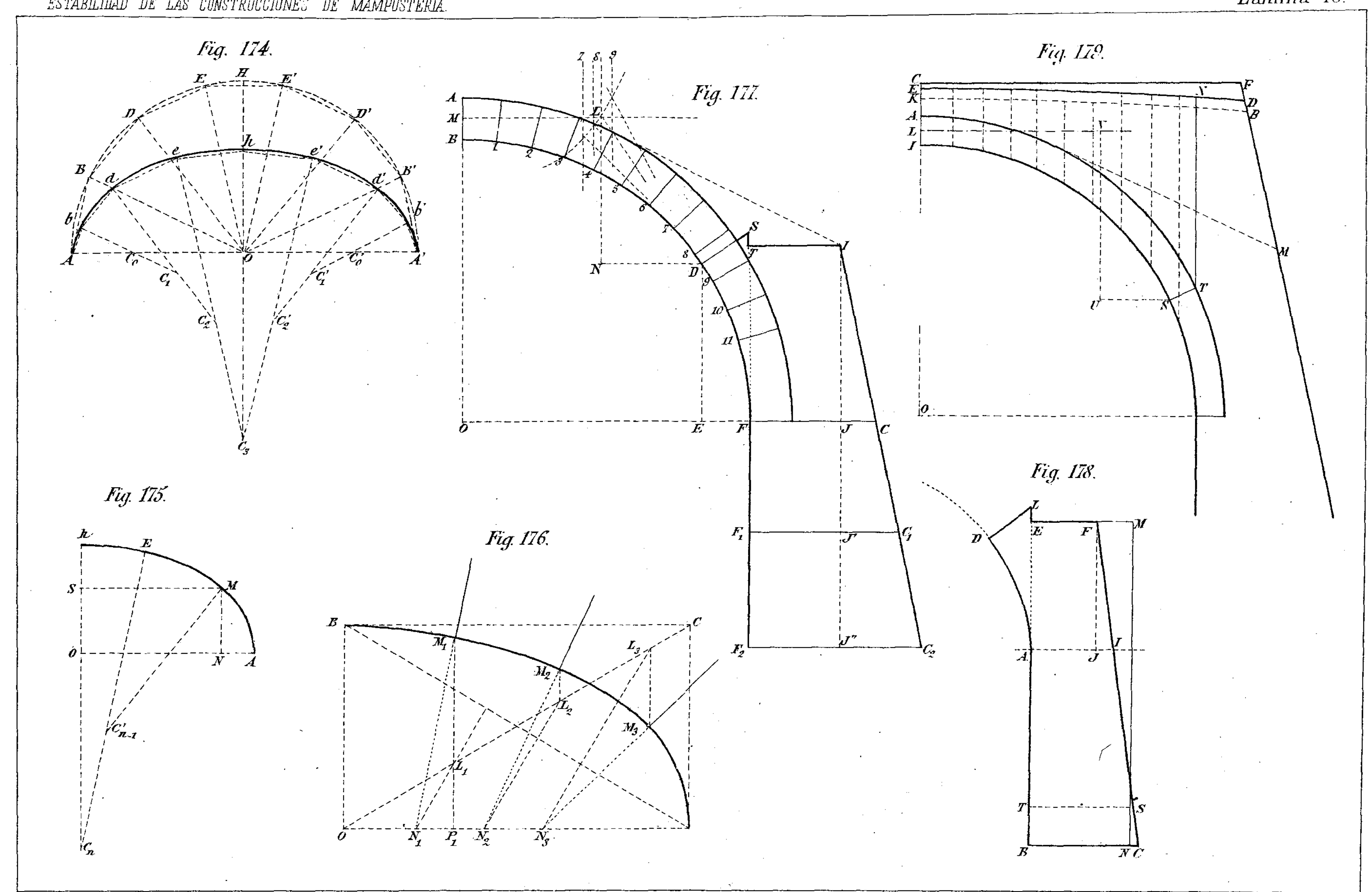

A
M
B
K
C
D
D'
L
S
N
N'
T
Fig. 129.
A
M
B
E
C
D
N
Fig. 130.
B'
A
C
C'
N
S
M
S'
T
D
F
B
T'
D'
O'
O
Fig. 131.
A
M
B
C
D
D'
E
N
F
F'
N'
E'
Fig. 132.
A
M
B
D
Fig. 133.
Fig. 134.
L
A
M
B
E
E'
D
N
N'
A
M
B
A'
M'
B'
C
L
D''
D'
D
N
S'
N'
T'
S
T
Fig. 135.
A
M
B
D
D''
D'
N'
S
T
Fig. 136.

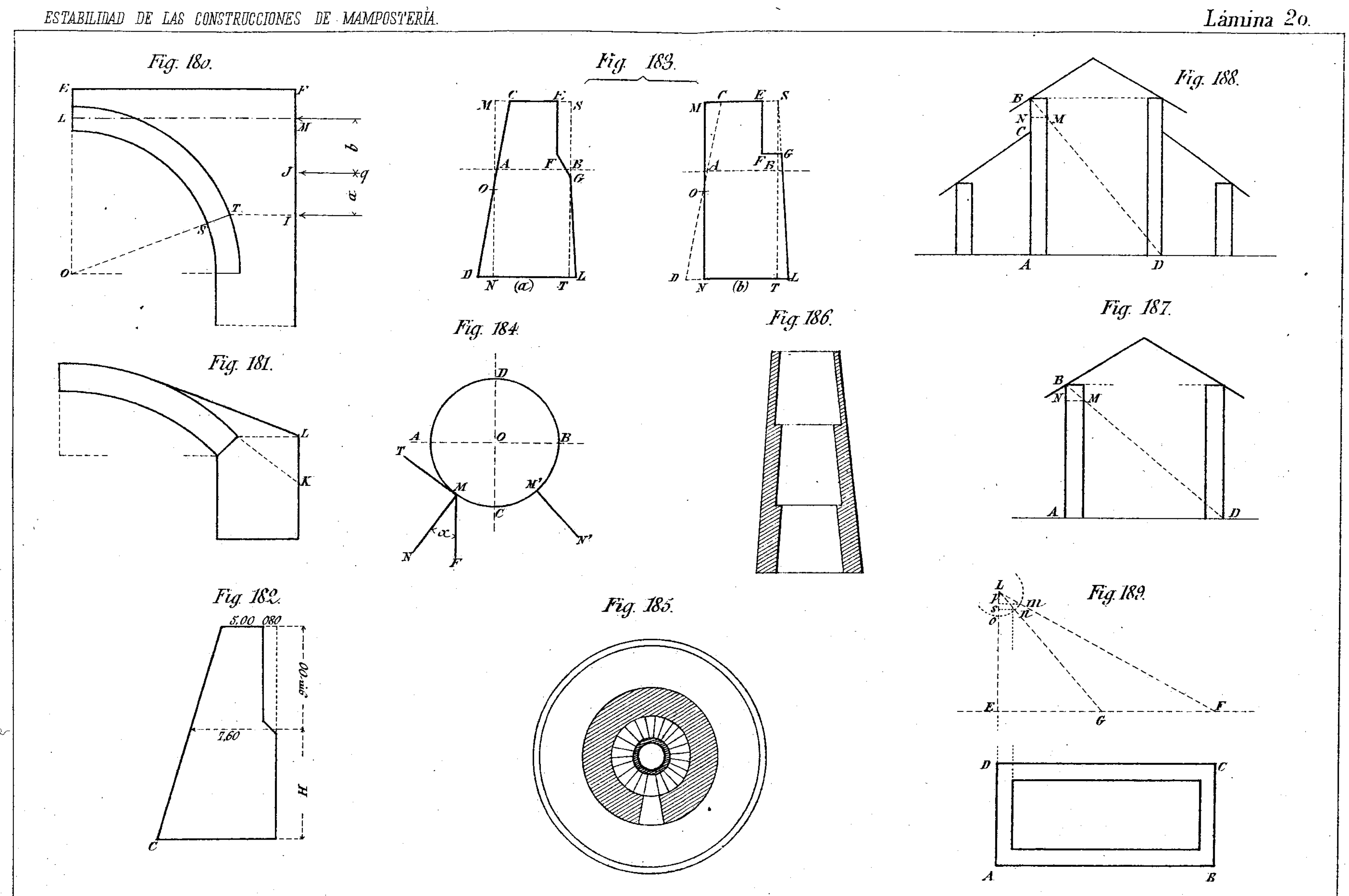

Fig. 137.
E
F
Q
Fig. 140.
A
B
A'
B'
J
J'
C'
C
O
I'
E'
I
E
Fig. 143.
A
M
B
G
D
L
K
θ
O
Fig. 138.
Fig 141.
A
B
D
C
Fig. 144.
Fig. 145.
c
f
a
C
E
n
D
Fig. 139.
n
Fig 142.
X
n
M
n'
C
C'
D
D'
Y
L
E
I
J
A
M
B
Fig. 146.
C
D


Fig. 147.
Fig. 148.
Fig. 149.
Fig. 150.
Fig. 151.
Fig. 152.
Fig. 153.
Fig. 154.
Fig. 155.
Fig. 156.


Fig. 157.
Fig. 158.
Fig. 159.
Fig. 160.
Fig. 161.
Fig. 162.
Fig. 163.
Fig. 164.
Fig. 165.
Fig. 166.
Fig. 167.


Fig. 168.
Fig. 169.
Fig. 170.
Fig. 171.
Fig. 172.
Fig. 173.


Fig. 174.
Fig. 175.
Fig. 176.
Fig. 177.
Fig. 178.
Fig. 179.


Fig. 180.
Fig. 181.
Fig. 182.
5,00
080
9m00
1,60
H
Fig. 183.
(a)
(b)
Fig. 184.
Fig. 185.
Fig. 186.
Fig. 187.
Fig. 188.
Fig. 189.